

Title (en)

MIMO-HARQ communication system and communication method

Title (de)

MIMO-HARQ-Kommunikationssystem und Kommunikationsverfahren

Title (fr)

Système de communication MIMO-HARQ et procédé de communication

Publication

EP 2099152 A2 20090909 (EN)

Application

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Priority

CN 200810082923 A 20080307

Abstract (en)

The invention relates to a MIMO-HARQ communication system and communication method. When a receiver carries out a CRC for received data streams and detects an error in a data stream, it feeds back to a transmitter and requests a retransmission of the data stream. The transmitter determines the correspondence between the data streams to be transmitted and a plurality of transmitting antennas in a method for retransmitting the error data stream with a transmitting antenna other than the one having transmitted the error data stream. Transmission and retransmission of a same data stream experience different spatial fading channels, so that an additional spatial diversity gain is obtained by exchanging the transmission sequences, in addition to a time diversity gain obtained by retransmission, and hence the probability of successful transmission is improved.

IPC 8 full level

H04L 1/18 (2006.01)

CPC (source: EP US)

H04B 7/061 (2013.01 - EP US); **H04L 1/1893** (2013.01 - EP US); **H04L 1/06** (2013.01 - EP US)

Citation (applicant)

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